

## RIVERS AND FLOODS

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[River and Flood Division, Montrose W. Hayes in charge]

Floods, which were mostly local in character, occurred in July in the Mississippi drainage area, and in the Gulf States, as shown in the table below.

Numerous floods were reported in creeks and small rivers, where it is impracticable to maintain a flood forecasting service. The most noteworthy of these was in the Paint and Armstrong Creeks of West Virginia, where damage to the extent of \$2,500,000 was done and 18 lives were lost. Another occurred in the Santa Cruz River, and inundated Nogales, Ariz., causing damage to the extent of \$75,000.

A moderate rise in the Coosa River in Alabama caused a break in Dam No. 5. No damage, aside from the breaking of the dam, was reported. One life was lost in the floods in Kansas.

Table of flood stages in July, 1932

[All dates in July unless otherwise specified]

River and station	Flood stage	Above flood stages—dates		Crest	
		From—	To—	Stage	Date
EAST GULF OF MEXICO DRAINAGE					
Tombigbee:	<i>Feet</i>			<i>Feet</i>	
Aberdeen, Miss.....	34	9	10	36.3	9
Lock 3.....	33	9	13	35.1	12
MISSISSIPPI SYSTEM					
<i>Upper Mississippi Basin</i>					
Des Moines: Ottumwa, Iowa.....	9	9	10	9.5	10
<i>Missouri Basin</i>					
Grand: Brunswick, Mo.....	12	7	9	12.8	7-8
Osage:					
Quenemo, Kans.....	30	5	7	35.2	6
Ottawa, Kans.....	24	6	8	27.2	8
Missouri: Waverly, Mo.....	23	7	7	23.0	7
<i>Ohio Basin</i>					
Elk: Clay, W. Va.....	18	4	6	26.5	4
<i>Arkansas Basin</i>					
Fountain: Fountain, Colo.....	8	29	29	8.6	29
Cimarron: Perkins, Okla.....	11	1	1	11.5	1
Cottonwood:					
Elmdale, Kans.....	32	6	7	33.57	5
Emporia, Kans.....	20	7	10	22.8	9
Neosho:					
Neosho Rapids, Kans.....	22	6	8	28.0	6
Le Roy, Kans.....	18	7	11	25.5	9-10
Iola, Kans.....	15	10	12	16.2	11
Chanute, Kans.....	20	12	12	20.5	12
Oswego, Kans.....	17	13	13	17.0	13
Arkansas: Great Bend, Kans.....	5	7	7	5.2	7
<i>Red Basin</i>					
Sulphur: Ringo Crossing, Tex.....	20	7	12	22.0	10
<i>Lower Mississippi Basin</i>					
Tallahatchie: Swan Lake, Miss.....	24	13	22	26.0	18
WEST GULF OF MEXICO DRAINAGE					
Trinity: Dallas, Tex.....	28	8	9	29.9	8
Guadalupe:					
New Braunfels, Tex.....	20	2	4	33.5	3
Gonzales, Tex.....	17	5	7	30.4	5
Victoria, Tex.....	21	8	10	24.0	9
Nueces:					
Cotulla, Tex.....	15	6	11	24.4	8
Three Rivers, Tex.....	35	7	11	43.8	8
GULF OF CALIFORNIA DRAINAGE					
Colorado: Parker, Ariz.....	7	May 1	(1)	12.0	May 30-31
PACIFIC SLOPE DRAINAGE					
<i>Columbia Basin</i>					
Columbia:					
Marcus, Wash.....	24	May 7	(1)	35.0	June 18, 19, 26, 27.
Vancouver, Wash.....	15	May 10	8	21.6	May 25

## Statement of flood losses

## EAST GULF OF MEXICO DRAINAGE

## TOMBIGBEE RIVER IN MISSISSIPPI AND ALABAMA

Prospective crops..... \$4, 000

## MISSISSIPPI SYSTEM

## Upper Mississippi Basin

## DES MOINES RIVER IN IOWA

Tangible property totally or partially destroyed..... \$10, 000

## Missouri Basin

## OSAGE RIVER IN KANSAS

Tangible property totally or partially destroyed..... 14, 000  
 Matured crops..... 45, 000  
 Prospective crops..... 22, 000  
 Livestock and other movable property..... 2, 000

## Arkansas Basin

## FOUNTAIN RIVER IN COLORADO

Tangible property totally or partially destroyed..... 7, 500  
 Prospective crops..... 200, 000

## CIMARRON RIVER IN OKLAHOMA

Tangible property totally or partially destroyed..... 50  
 Prospective crops..... 1, 350

## COTTONWOOD AND NEOSHO RIVERS IN KANSAS

Tangible property totally or partially destroyed..... 25, 000  
 Matured crops..... 93, 500  
 Prospective crops..... 363, 950  
 Livestock and other movable property..... 16, 500  
 Suspension of business, including wages of employees... 14, 000

## Lower Mississippi Basin

## TALLAHATCHIE RIVER IN MISSISSIPPI

Prospective crops..... 20, 000

## WEST GULF OF MEXICO DRAINAGE

## GUADALUPE RIVER IN TEXAS

Tangible property totally or partially destroyed..... \$195, 000  
 Matured crops..... 12, 000  
 Prospective crops..... 25, 000  
 Livestock and other movable property..... 8, 000

## NEUCES RIVER IN TEXAS

Tangible property totally or partially destroyed..... 380, 000  
 Matured crops..... 85, 000  
 Prospective crops..... 65, 000  
 Livestock and other movable property..... 18, 000

## ESTIMATED VALUE OF PROPERTY SAVED BY WARNINGS

Tombigbee River in Mississippi and Alabama..... \$15, 000  
 Osage River in Kansas..... 5, 000  
 Missouri River in Missouri..... 500  
 Cottonwood and Neosho Rivers in Kansas..... 85, 000  
 Sulphur River in Louisiana..... 4, 000  
 Tallahatchie River in Mississippi..... 1, 000  
 Guadalupe River in Texas..... 42, 750  
 Neuces River in Texas..... 37, 800

<sup>1</sup> Continued into August.